

Welcome to the Global Institute's Work Session!

Welcome & Overview

Welcome

Dana McDaniel, Dublin City Manager

Top 7 Intelligent Communities

Lou Zacharilla, Founder, Intelligent Communities Forum

Intelligent Ohio - Mission

Dave Baldwin, President, Aquarian Technology Systems

Today's Objectives & Expectations



Today's Agenda

- 1. Welcome
- 2. Website Overview
- 3. Connect Ohio Presentation
- 4. What's an Intelligent Ohio/Defining Success
- 5. Lunch Break
- 6. Steps in achieving our Mission
- 7. Role of the Institute
- 8. Role of our Members
- 9. Closing Comments



Institute's Website Overview

http://globalinstitute.dublinohiousa.gov/

- 1. What documents would be useful to your organization?
- 2. What documents can you contribute for the good of the group?

Bruce Edwards, Dublin Web Administrator

bedwards@dublin.oh.us

Kyle Kridler, Dublin Economic Development Administrator

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Global Institute for the Study of the Intelligent Community in Dublin, Ohio, USA



Break

LINDSAY SHANAHAN EXECUTIVE DIRECTOR

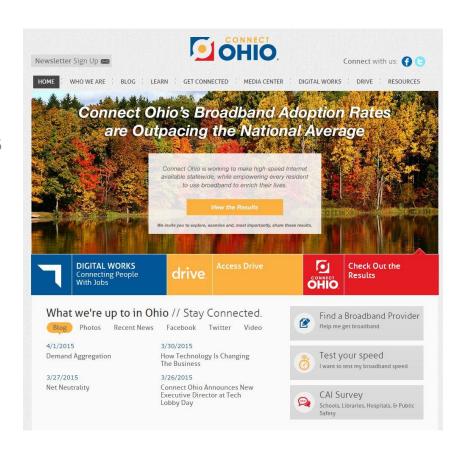
CONNECT OHIO

FEBRUARY 29, 2016



Connect Ohio

- Eight years as Ohio's nonprofit, neutral source for complete and accurate broadband data
- Advocating to connect communities and expand broadband access, adoption, and use statewide
- > Key services:
 - Broadband Mapping, Research, and Visualization
 - Community Planning and Technical Assistance
 - State and Federal Broadband Policy Monitoring and Analysis



Broadband Mapping, Research, and Technical Assistance

- Wireless & wireline broadband data collection, processing, mapping, and validation
- Publicly-available interactive mapping tool,
 My ConnectView™
- Peer-reviewed research and technology studies to measure the rates and related barriers to broadband adoption in Ohio
- Infrastructure and local asset evaluations
- Local broadband planning teams and community projects



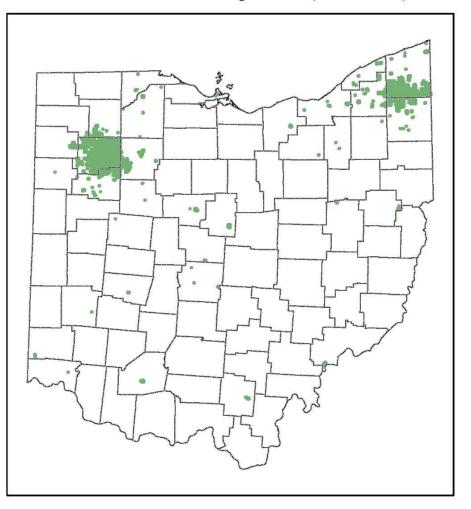
May 2015

Direct Engagement Results in Accurate Broadband Maps

Relying on FCC data alone for this provider would overestimate availability of 25 Mbps download/3 Mbps upload broadband to 13,000 Ohioans.

Broadband Provider Filing to FCC (March 2015)

Connect Ohio Validated Coverage (June 2015)





Connect Ohio worked with the broadband provider to establish an accurate and rational coverage estimate.

Broadband Availability Data

Key Features

- Search by location
- Locate Providers
- Display Coverage
- Extract Demographics
- View Served/Unserved Areas
- Export Shape Files
- Share Links
- Display CAIs
- Display Tower Locations
- Customizable Maps



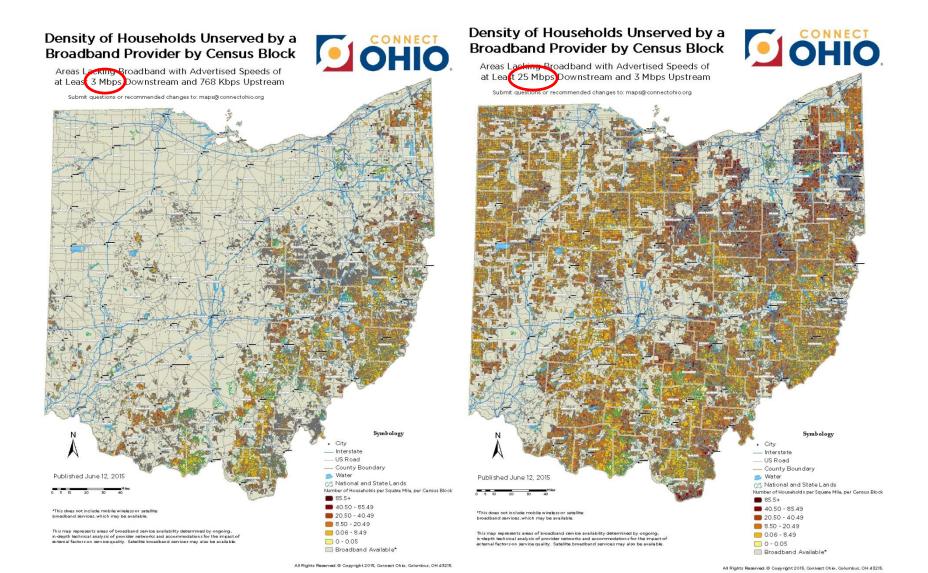
Answers we can provide . . .

- Where is broadband available in Ohio?
- How many people do not have adequate access to broadband, and where are they?
- Are there differences between claimed broadband availability and actual connectivity?
- How are Ohioans using broadband?
- Are there different "use" profiles for broadband based on demographic profile?

I just wanted to say thank you for taking the time to join our meeting with the libraries yesterday. I think it made a true difference for them to not only become more knowledgeable about some of the programs out there, but also to know that there are people in their corner trying to find better ways for the children in our region to use their libraries as the resources they need.

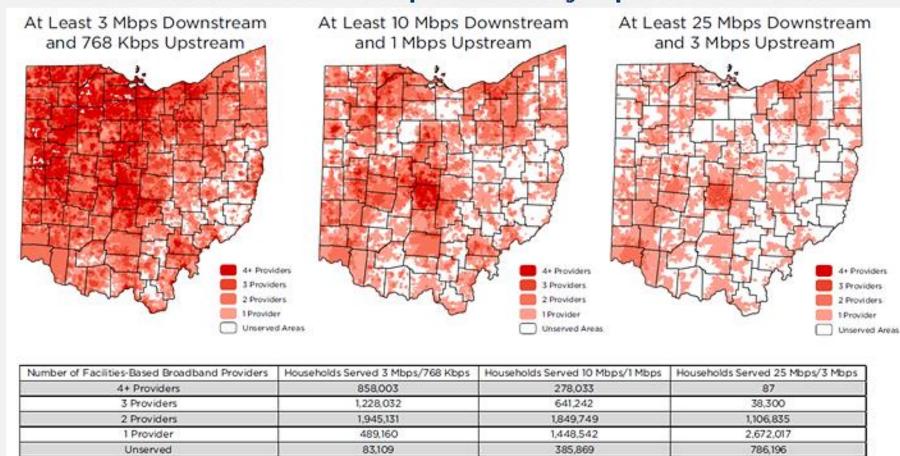
-Megan Wanczyk, VP of Annual Fund and Communications, Foundation for Appalachian Ohio

Ohio's Broadband Landscape: Access



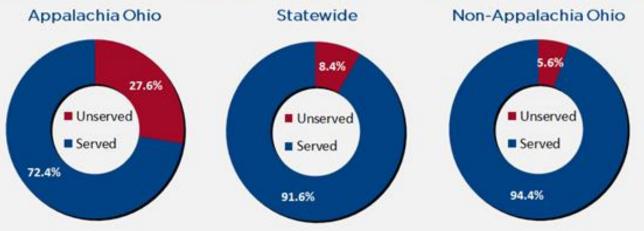
Ohio's Broadband Landscape: Access

Fixed Broadband Competition by Speed of Service

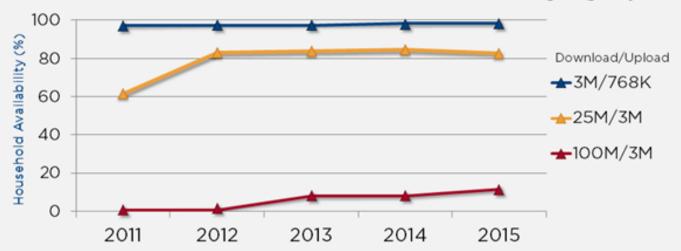


Ohio's Broadband Landscape: Access

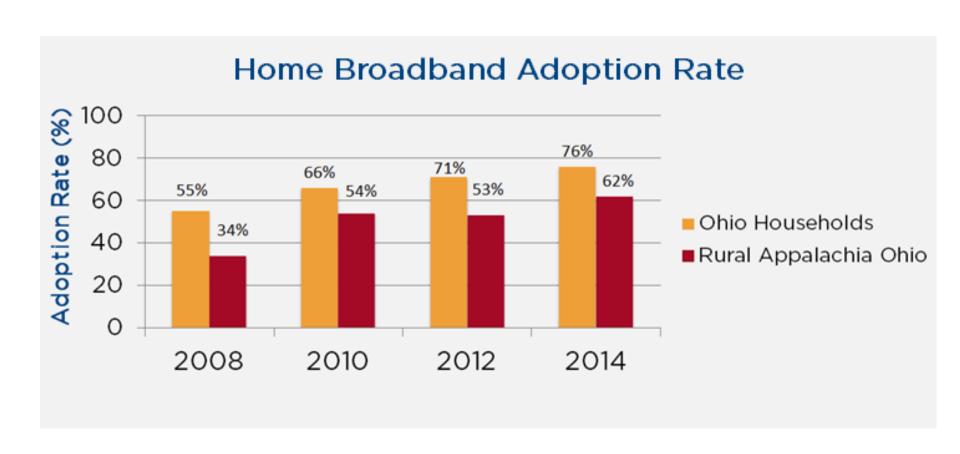




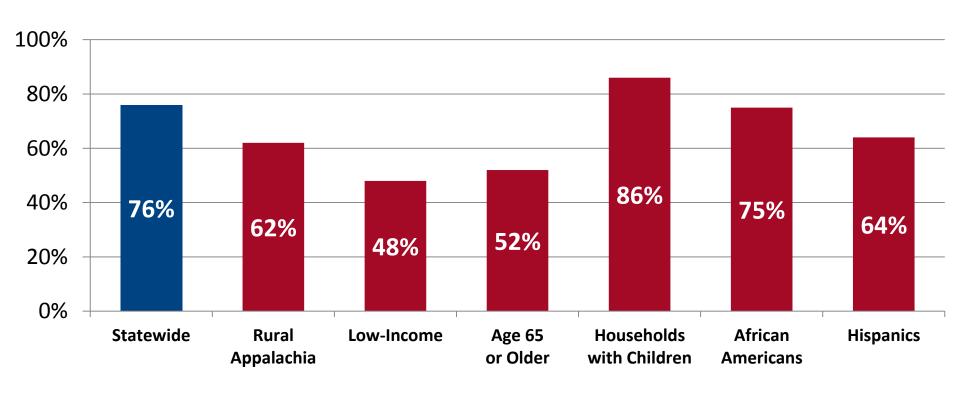
Trends in Residential Broadband Availability by Speed



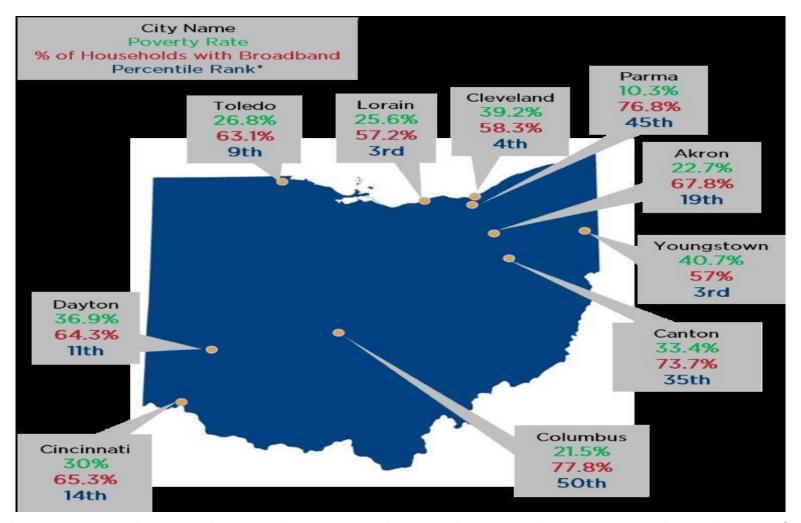
Ohio's Broadband Landscape: Adoption



Home Broadband Adoption Rates

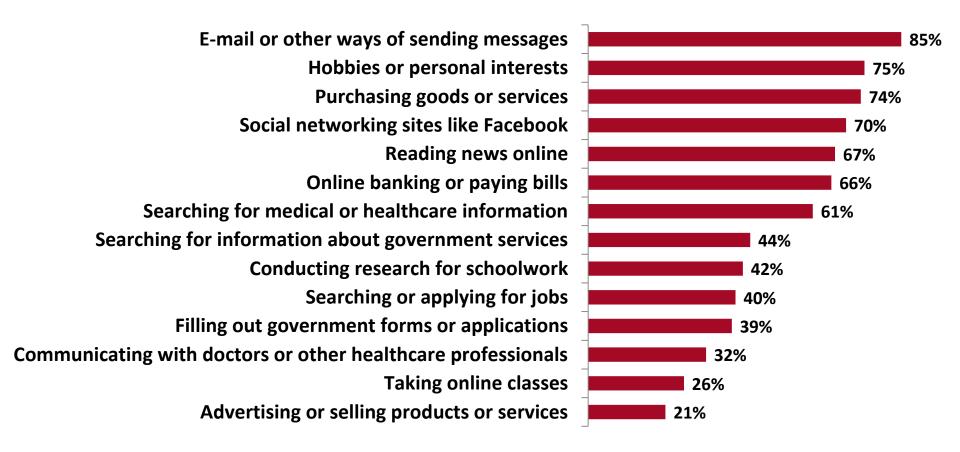


Ohio's Broadband Landscape: Adoption in Urban Areas



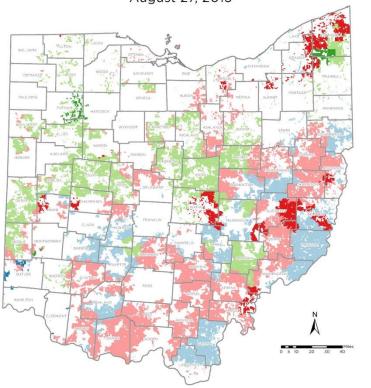
^{*}Percentiles are measured against the 591 urban areas in the United States and Puerto Rico with populations of 50,000 or more. For example, a city in the 10th percentile has a broadband adoption rate lower than 90% of those 591 cities.

How Ohio Adults Use the Internet



Efforts to Solve Digital Disparities

Connect America Fund Phase II Build-Out Commitments August 27, 2015



| Carrier | Housing and Business Locations in Targeted Areas | Annual Subsidy |
|-----------------|---|----------------|
| AT&T | 37,603 | \$14,802,500 |
| Cincinnati Bell | 745 | \$194,944 |
| CenturyLink | 47,707 | \$15,982,805 |
| FairPoint | 1,247 | \$420,997 |
| Frontier | 66,592 | \$22,927,850 |
| Windstream | 13.073 | \$4,154,270 |

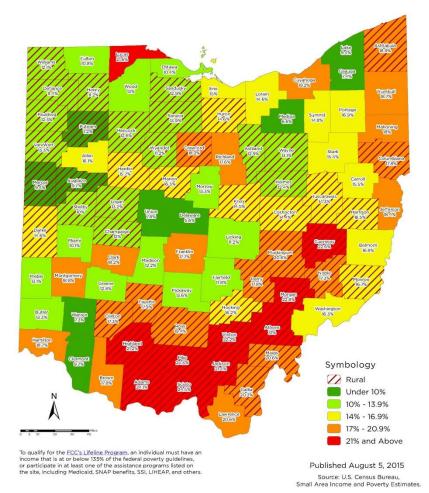


| Leg | end |
|-----|--|
| | County Boundary |
| | AT&T Areas Targeted for Subsidy |
| | Cincinnati Bell Areas Targeted for Subsidy |
| | CenturyLink Areas Targeted for Subsidy |
| | FairPoint Areas Targeted for Subsidy |
| | Frontier Areas Targeted for Subsidy |
| | Windstream Areas Targeted for Subsidy |
| | |

| Provider | Annual Subsidy Offered (2015-2020) | Locations in Eligible Areas |
|-----------------|--|-----------------------------|
| AT&T | \$14.8 million | 37,603 |
| Cincinnati Bell | \$194,944 | 745 |
| CenturyLink | \$16 million | 47,707 |
| FairPoint | \$420,997 | 1,247 |
| Frontier | \$22.9 million | 66,592 |
| Windstream | \$4.15 million | 13,073 |
| Total: | \$58.38 million | 166,967 |

Efforts to Solve Digital Disparities

Poverty in the State of Ohio
Percentage of Population Living Under Poverty Level



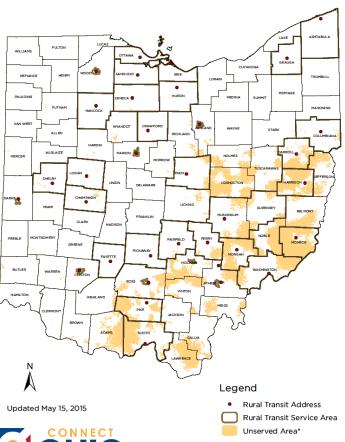
ConnectHome: Public-private initiative with Department of Housing and Urban Development (HUD), EveryoneOn, and US Ignite to provide low-cost broadband, technical training, digital skills, and devices to residents in assisted housing units.

Lifeline Reform: the Federal Communications Commission recently voted to add broadband coverage to the government's Lifeline phone subsidy program for low-income families.

Efforts to Solve Digital Disparities

Rural Transit Systems Unserved by Broadband

Unserved by Fixed Wireless or Mobile Broadband with Advertised Speeds of at Least 10 Mbps Downstream and 1.5 Mbps Upstream



Transit Tech Ohio

Ohio DOT and Connect Ohio Tiger
Grant

Provide technical assistance to improve rural broadband capacity in 49 counties

Community Engagement and Wireless Broadband

Leverage CAF infrastructure investment to benefit rural transit and economic opportunity



*This does not include satellite or fixed broadband services, which may be available.

The Future of Connect Ohio

- Dedicated broadband outreach and technical assistance office in Columbus is closed.
- Ohio broadband availability maps, analyses, and validation techniques, as well as broadband adoption research will no longer be updated.
- Inquiries into broadband service coverage across the state will no longer be conducted.
- All broadband service coverage validations are terminated.
- Connect Ohio's quarterly federal policy briefings are eliminated.



What is an Intelligent Ohio?

Intelligent Ohio & Success

- 1. What is an "Intelligent Ohio"?
- 2. What does success look like?

Break up into three groups

- Assign a scribe
- Assign a spokesperson
- Report back to the group at 11:30 a.m.





Lunch Break



The way forward!

Next Steps & Actions

- 1. What are the next steps that need to be taken?
- 2. How do we continue to move forward to become an Intelligent Ohio?

Break up into three groups

- Assign a scribe
- Assign a spokesperson
- Report back to the group at 2:10 p.m.



Global Institute for the Study of the Intelligent Community in Dublin, Ohio, USA



Break

Four Focus Areas

1. Assess & Evaluate

Metrics towards 6 indicators

- 2. Energize & Educate
 City by City/Community Accelerator
- 3. Research & Development Needs
- 4. Leverage Affiliations
 Statewide/Associations/Global



Thank you!

Notes, Follow Up & Next Steps to come...

